

CLAIMS

What is claimed is:

1. A cooling system for removal of heat from at least one heat generating component, the cooling system comprising:

a low-profile extrusion having an inner and outer external surface and having a first end and a second end, said low-profile extrusion being curved upon itself such that said second end is disposed generally opposite said first end;

an interior space formed by said inner external surface of said low-profile extrusion;

said low-profile extrusion having an external surface adapted for thermal connection to said at least one heat generating component;

a plurality of micro-tubes formed in the interior of said low-profile extrusion and adapted for containing a heat transfer fluid inside the micro-tubes; and

a fin structure in thermal connection with the exterior surfaces of said extrusion.

2. The cooling system of claim 1, further comprising:

a spring structure abutting said fin structure and adapted for thermal connection of said cooling system to said heat generating component.

3. A generally toroidally-shaped heat pipe cooling system for removing heat from at least one heat generating component, the system comprising:

a low-profile extrusion curved upon itself and forming a generally torodial shape; and

at least one fin structure extending from at least one surface of the low-profile extrusion.

4. The cooling system of claim 3, wherein the fin structure extends along at least a portion of an exterior surface of the low-profile extrusion.

5. The cooling system of claim 1, further comprising:
a generally planar portion for positioning substantially near at least one heat generating element.

6. The cooling system of claim 5, wherein the fin structure extends along a portion of the low-profile extrusion excluding the generally planar portion.

7. The cooling system of claim 3, wherein the fin structure extends along at least a portion of an interior surface of the low-profile extrusion.

8. The cooling system of claim 3, wherein the fin structure is formed of a single extrusion.

9. The cooling system of claim 3, wherein the fin structure extends across a first and a second end of the low-profile extrusion.

10. A method for cooling heat generating elements, the method comprising:
placing a generally toroidally-shaped heat pipe substantially near at least one of the heat generating elements; and

drawing air across the generally toroidally-shaped heat pipe via a fan structure.

11. The method of claim 10, wherein the generally torodially-shaped heat pipe includes a fin structure along at least one of an inner and an outer surface.
12. The method of claim 11, wherein the fin structure is formed as a single extrusion.
13. The method of claim 10, wherein the step of placing comprises placing a generally planar portion of the generally toroidally-shaped heat pipe substantially near at least one of the heat generating elements.
14. The method of claim 10, wherein the step of drawing air comprises pulling air through the generally toroidally-shaped heat pipe.
15. The method of claim 10, wherein the step of drawing air comprises pushing air through the generally toroidally-shaped heat pipe.